IN THE CLAIMS:

Please amend the claims as shown below. The claims, as pending in the subject application, now read as follows:

(Currently amended) A method of <u>correcting a forward model of an input color device</u> mapping a device-dependent color-value depending on a color-input device to a device-independent color-space, comprising:

mapping converting an input color value the device dependent color value generated by the input color device into a mapped color value in a device-independent color space value by using the a forward model of the color input device;

clipping a <u>negative</u> luminance component of the <u>mapped color value in the</u> device-independent color <u>space</u> value to a non-negative value;

determining whether or not the elipped mapped color value in the deviceindependent color space device-independent color value is outside a human visual gamut;
and

generating a corrected color value in the device independent color space by clipping mapping the mapped color value in the device-independent color value outside the human visual gamut to a boundary of the human visual gamut based on the determination result.

(Previously presented) The method of claim 1, wherein clipping the
 luminance component sets the luminance component of the device-independent color value which has a negative value and chromaticity components to zero.

3. (Canceled)

- 4. (Currently amended) The method according to claim 2, wherein the luminance component of the device-independent color value is not clipped at an upper bound in the clipping wherein the luminance component of the device-independent color value is allowed to take a value higher than a diffuse white point of the device-independent color space.
- 5. (Previously presented) The method of claim 1, wherein the mapping maps the clipped device-independent color value outside the human visual gamut to an intersection between a line defined by the clipped device-independent color value and a white point and the boundary of the human visual gamut.
- (Previously presented) The method of claim 1, wherein the boundary is the ISO standard CIE spectral locus on a chromaticity space.
- (Original) The method of claim 6, wherein the chromaticity space is the CIE chromaticity xy plane.
- (Original) The method of claim 6, wherein the chromaticity space is the CIE Uniform Chromaticity Scale (UCS) u'v' plane.

- (Previously presented) The method of claim 1, wherein the deviceindependent color space is CIEXYZ.
- (Previously presented) The method of claim 1, wherein the deviceindependent color space is CIELUV.
- (Previously presented) The method of claim 1, wherein the deviceindependent color space is CIELAB.
- 12. (Currently amended) A data processing system for <u>correcting a</u>

 forward model of an input color device mapping a device dependent color value depending
 on a color input device to a device independent color space, comprising:
 - a processor;
- a memory coupled to the processor, the memory having program instructions executable by the processor stored therein, the program instructions comprising:
- mapping converting an input color value the device dependent color value generated by the input color device into a mapped color value in a device-independent color space value by using the a forward model of the color input device;
- clipping a <u>negative</u> luminance component of the <u>mapped color value in the</u> device-independent color <u>space</u> value to a non-negative value;

determining whether or not the elipped mapped color value in the deviceindependent color space device-independent color value is outside a human visual gamut; and

generating a corrected color value in the device independent color space by clipping mapping the mapped color value in the device-independent color value outside the human visual gamut to a boundary of the human visual gamut based on the determination result.

13. (Previously presented) The data processing system of claim 12, wherein the program instructions for clipping the luminance component set the luminance component of the device-independent color value which has a negative value and chromaticity components to zero.

14. (Canceled)

- 15. (Currently amended) The data processing system of claim 13, wherein the luminance component of the device-independent color value is not clipped at an upper bound in the clipping wherein the luminance component of the device-independent color value is allowed to take a value higher than a diffuse white point of the device-independent color space.
- 16. (Previously presented) The data processing system of claim 13, wherein the mapping maps the clipped device-independent color value outside the human

visual gamut to an intersection between a line defined by the clipped device-independent color value and a white point and the boundary of the human visual gamut.

- 17. (Previously presented) The data processing system of claim 12, wherein the boundary is the ISO standard CIE spectral locus on a chromaticity space.
- 18. (Original) The data processing system of claim 17, wherein the chromaticity space is the CIE chromaticity xy plane.
- 19. (Original) The data processing system of claim 17, wherein the chromaticity space is the CIE Uniform Chromaticity Scale (DCS) u'v' plane.
- (Previously presented) The data processing system of claim 12, wherein the device-independent color space is CIEXYZ.
- 21. (Previously presented) The data processing system of claim 12, wherein the device-independent the color space is CIELUV.
- (Previously presented) The data processing system of claim 12, wherein the device-independent color space is CIELAB.

23. (Currently amended) A computer-readable medium having program instructions for correcting a eolor value generated by a forward model of an for a color input color device, the program instructions comprising:

mapping converting an input color value the device dependent color value generated by the input color device into a mapped color value in a device-independent color space value by using the a forward model of the color input device;

clipping a <u>negative</u> luminance component of the <u>mapped color value in the</u>
device-independent color <u>space value</u> to a non-negative value;

determining whether or not the elipped mapped color value in the deviceindependent color space device independent color value is outside a human visual gamut; and

generating a corrected color value in the device independent color space by clipping mapping the mapped color value in the device-independent color value outside the human visual gamut to a boundary of the human visual gamut based on the determination result.

24. (Previously presented) The computer-readable medium of claim 23, wherein the program instructions for clipping the luminance component set the luminance component of the device-independent color value which has a negative value and chromaticity components to zero.

25. (Canceled)

- 26. (Currently amended) The computer-readable medium of claim 25, wherein the luminance component of the device-independent color value is not clipped at an upper bound in the clipping wherein the luminance component of the device-independent color value is allowed to take a value higher than a diffuse white point of the device-independent color space.
- 27. (Previously presented) The computer-readable medium of claim 26, wherein the mapping maps the clipped device-independent color value outside the human visual gamut to an intersection between a line defined by the clipped device-independent color value and a white point and the boundary of the human visual gamut.
- 28. (Previously presented) The computer-readable medium of claim 27, wherein the boundary is the ISO standard CIE spectral locus on a chromaticity space.
- 29. (Previously presented) The computer-readable medium of claim 28, wherein the chromaticity space is the CIE chromaticity xy plane.
- 30. (Previously presented) The computer-readable medium of claim 28, wherein the chromaticity space is the CIE Uniform Chromaticity Scale (UCS) u'v' plane.
- (Previously presented) The computer-readable medium of claim 23, wherein the device-independent color space is CIEXYZ.

32. (Previously presented) The computer-readable medium of claim 23, wherein the device-independent color space is CIELUV.

33. (Previously presented) The computer-readable medium of claim 23, wherein the device-independent color space is CIELAB.